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DIMARCO

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JOHN G SHUDY JR HONEYWELL INC HONEYWELL PLAZA P O BOX 524 MN12 8251 MINNEAPOLIS MN 55440-0524

DINH.T ART UNIT PAPER NUMBER

EXAMINER

2841

DATE MAILED:

12/06/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

- 1 mm		App	lication No.		Applicant(s)	
	Office Action Summary		224,340	*	DIMARCO, MAR	RIO
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1)🖾	Responsive to communication(s) fi	led on 21 Santom	hor 2000			
2a)□				. 30		
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Dispositi	on of Claims	*	- quay,0, 10	700 O.D. 11, 45.	o O.G. 213.	
4)⊠	Claim(s) <u>1-7 and 9-21</u> is/are pendin	g in the applicatio	n			
4	a) Of the above claim(s) is/ar	e withdrawn from	consideration	- m		
5) 🗌	Claim(s) is/are allowed.	o williarawii iiojij	consideration	on.		
	Claim(s) <u>1-7 and 9-21</u> is/are rejected					
	Claim(s) is/are objected to.	•				
	Claims are subject to restricti	ion and/or election	roquirome.			
pplicatio		ion anazor election	rrequiremen	17.		
	he specification is objected to by the	Evaminor				
10)□ T	he drawing(s) filed on is/are o	chicated to be the				
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	der 35 U.S.C. § 119	by the Examiner.				
۲۱ تارف	cknowledgment is made of a claim fo	or foreign priority (under 35 U.S	S.C. § 119(a)-(d)).	
	All b) Some * c) None of:					
2.	med copies of the billotty ac	ocuments have be	en received			
3.	dopide of the priority de	ocuments have be	en received	in Application N	lo	
	Copies of the certified copies of application from the Internati the attached detailed Office action f	the priority docum ional Bureau (PC) or a list of the con	nents have b	een received in	this National St	age
14) 🗌 Ac	knowledgement is made of a claim f	or domestic priori	y under 35 t	not received. J.S.C. & 119(e)		
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Davies et al (U.S. Patent 4,736,274).

As to claims 1, 13, Davies discloses a integrated modular cabinet (1) as shown in figures 1-11 comprising a plurality of printed circuit board modules (PC), and a chassis (R) having a front (IN) and slots (ch1, ch2) to receive the modules. Also, the chassis has top, bottom, and side panels. The plurality of the printed circuit boards is created a seal with the chassis (column 1, lines 14, 16, 29, 55-56, column 2, and lines 25-39).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-7, 9-11 and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davies in view of Craker (U. S. Patent 4,716,497).

As to claim 2, Davies discloses and satisfies all of the limitations as above, except for showing a faceplate that comprises the faceplate that has a first end and an

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opposite second end, and first and second screws attach to the firs and second screws. Craker discloses the cabinet wherein each of the modules as shown in figures 5-7 comprises the faceplate (22) that has a first end and an opposite second end, and first and second screws (60) that attach to the firs and second ends of the faceplate.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cabinet of Davies and provide the faceplate having fastening members as taught by Craker in order to support for the module securing when the module slide and seal in the cabinet.

As to claims 6-7 and 9-11, Davies discloses the cabinet wherein the module comprises a connector assembly (BP), and the connector assembly includes a plurality of the connectors (B-cc shown in figure 1D). Davies does not show the module that has more than one circuit board that has a first end connected to the faceplate and opposite second end connected to the connector assembly. The connectors with surface mounted leads at position 90 degrees. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cabinet of Davies and provide the module having more than one circuit board, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

As to claims 16-17, Davies discloses the cabinet as shown in figures 1-5 wherein the top and bottom panels are configured with a plurality of ventilation holes (P1-P3) and each of holes is sized (column 1, lines 18-22).

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As to claims 19-20, Davies discloses the cabinet as shown in figures 1-5 wherein the top and bottom panels are configured with a plurality of guide rails, and each of one guide rail mounted on the top and bottom panels.

As to claims 14 and 15, Davies and Craker disclose and satisfy all of the limitation of the claimed invention, except for showing the interchangeable of the top and bottom panels and two side of the panels, where a part of the cabinet may be relocated without modification to the operation of the cabinet, such a relocation is considered to have been within the skill of art. *In re Japikse*, 86 USPQ 70 (1950).

As to claim 18, Davies discloses the cabinet including the hole and satisfies all of the limitation of the claimed invention, except for the size of the hole. It would have been obvious matter of design choice to make as small (diameter) as possible to reduce the amount of space, since such a modification would have involved a mere change in this size of the hole. The change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

As to claims 3 and 4, Davies discloses the cabinet, except for the first and second screws is jackscrews and configured to clutch. Cracker teaches the module having a face plate (22) including the screw (60) configured as jackscrew and clutch for fastening the printed circuit board module to the cabinet. It would have been obvious to one ordinary skill in the art at the time the invention was made to utilize the screws of Craker and provide the jack-screw and clutch as taught by Cracker in order for fastening the module for the rack of the enclosure.

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As to claim 5, Davies discloses and satisfies the claimed invention except for the predetermined amount of force is about 70 pounds per screw. It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the force to fastening the screw on the module for secured the module within cabinet, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davies in view of Craker as applied to claims as above, and further in view of McKenzie (U. S. Patent 4,002,386.

Davies and Craker disclose and satisfy all of the claimed invention, except for the flexible handle mounted on the faceplate of the module. McKenzie teaches the flexible handle (24) as shown in figures 2 and 3. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cabinet and provide the flexible handle to use to remove the module from the cabinet as taught by McKenzie.

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Response to Arguments

Applicant's arguments with respect to claims 1-7 and 9-21 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703-308-3301. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-3431 for regular communications and 703-308-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD December 2, 2000 Mage